

FLASHLIGHT WITH LENS FOR TRANSMITTING CENTRAL AND OFF-AXIS LIGHT SOURCES

Abstract

A flashlight has a lens having an optical axis, with a first light source positioned on the optical axis. A second light source is spaced apart from the first light source away from the optical axis, and the lens has an aperture registered with the second light source. The lens may have a central portion configured to transmit axially-emitted light from the first light source, and the lens having a peripheral portion having an internally reflective surface configured to reflect laterally-emitted light from the light source in a direction more closely aligned with the optical axis. The first light source may be positioned within a recess in the lens, and the aperture may be formed in the peripheral portion of the lens. The light sources may be LEDs, and may be of different colors.